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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,245	06/20/2003	Sandeep Bhatia	14532US01	5543

23446 7590 12/21/2007  
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CHICAGO, IL 60661

EXAMINER
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VO, TUNG T

ART UNIT	PAPER NUMBER
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2621

MAIL DATE	DELIVERY MODE
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12/21/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/600,245

**Applicant(s)**

BHATIA, SANDEEP

**Examiner**

Tung Vo

**Art Unit**

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 October 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-11 and 17-20 is/are pending in the application.
- 4a) Of the above claim(s) 12-16 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11, 17-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/31/2007 has been entered.

2.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-11, and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kono et al. (US 2001/0005398) in view of Adolph et al. (US 6,438,318).

Re claims 1, 5, 8-11, and 16-20, Kono teaches a circuit (fig. 6) for displaying images on a display, said circuit comprising: a first processor (52 of fig. 6) is a decoder; a first memory (54 of fig. 6, Note the decode control section holds the initial decode starting instruction and slice layer decode starting instruction, which is considered as a memory) operably coupled to the first processor, said first memory storing a plurality of instructions for execution by the first processor, wherein the plurality of executable instructions cause: decoding (63 of fig. 6) encoded images and parameters associated with the images, thereby resulting in decoded images, and

decoded parameters (PATH FOR WRITING/READING DECODED PICTURE AND PARAMATERS, 62 of fig. 6, Note writing is storing the decoded picture and parameters into the display control section, 55 of fig. 6; so the display control section (55 of fig. 6) would obviously has a memory for storing the decoded picture and parameters) associated with the decoded images (71 of fig. 6); storing the decoded images (53a-53b of fig. 6) and parameters associated with decoded picture in the parameter storing area (53e of fig. 6, see also 53f, 53g, and 53h of fig. 6); a second processor (55 of fig. 6) operably coupled to the status register (57 of fig. 6) for updating an image to be display on a display unit ([0075], [0084]-[0085]); a second memory (57 and 53f-53h of fig. 6) operably coupled to the second processor, said second memory storing a plurality of instructions (a display starting instruction, 68 of fig. 6) for execution by the second processor (55 of fig. 6), wherein the plurality of executable instructions cause: presenting the images indicated by the display starting instruction for display (68, 74 of fig. 6; S16 of fig. 8); wherein the instructions causing presenting the images further comprise instructions causing receiving the decoded parameters and displaying the decoded images based on the decoded parameters (DISPLAY UNIT of fig. 6; [0075], [0085]).

It is noted that Kono does not particularly teach a FIFO for storing indicators indicating images to be displayed, and wherein the queue stores the indicators in a particular order, and wherein the display engine displays the picture associated with the indicators in an order corresponding to the order that the indicators are stored in the queue, wherein each indicator indicates a different image to be displayed as claimed.

However, Adolph teaches a FIFO (16 of fig. 7) for storing indicators (A, B, C, 16 of fig. 7) indicating images to be displayed, and wherein the queue stores the indicators in a particular

order (I, P, B pictures, GOP as display order), and wherein the display engine (fig. 8) displays the picture associated with the indicators (A, B, C of fig. 7) in an order corresponding to the order that the indicators are stored in the queue (20 of fig. 8), wherein each indicator (A of fig. 7) indicates a different image (I or P picture) to be displayed (col. 7, line 55-col. 8).

Therefore, taking the teachings of Kono and Adolph as a whole, it would have been obvious to one of ordinary skill in the art to incorporate the teachings of Adolph (16, 20 of fig. 7, and fig. 8) into the Kono for indicating the image (I, P, or B pictures) to be displayed in the display order so that the memory requirements of the decoder system to reduce its size and cost.

Re claims 2 and 6, Kono further teaches parameter buffers (53f-53h of fig. 6) for storing the decoded parameters associated with the images.

Re claims 3 and 7, Kono further teaches wherein the display engine (55 of fig. 6) presents the images indicated by the queue for display by receiving the decoded parameters and displaying the decoded images based on the decoded parameters (DISPLAY UNIT of fig. 6).

Re claim 4, Kono further teaches wherein the decoder comprises a first processor (54 of fig. 6) and the display engine comprises a second processor (DISPLAY UNIT of fig. 6).

### ***Conclusion***

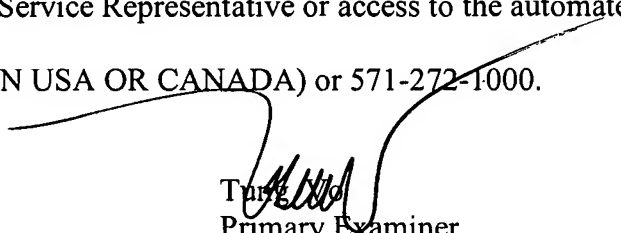
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
6. Kawamura et al. (US 6,068,241) discloses playback method and apparatus for reproducing encoded data in a reverse playback operation.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung Vo whose telephone number is 571-272-7340. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Tung Vo  
Primary Examiner  
Art Unit 2621